

APC/Fire™ 750 anti-mouse CD14 Antibody

Catalog# / Size	123331 / 25 µg 123332 / 100 µg
Clone	Sa14-2
Regulatory Status	RUO
Other Names	LPS receptor
Isotype	Rat IgG2a, κ
Description	CD14 is a 53-55 kD glycosylphosphatidylinositol (GPI)-linked membrane glycoprotein also known as LPS receptor. CD14 is expressed on macrophages, dendritic cells, Kupffer cells, hepatocytes, and granulocytes. As a high-affinity receptor for LPS-LBP (LPS-binding protein) complex, CD14, in association with Toll-like Receptor 4 (TLR4) or 2 (TLR2), is involved in the clearance of gram-negative pathogens.

Product Details

Verified Reactivity	Mouse
Antibody Type	Monoclonal
Host Species	Rat
Immunogen	Mouse thymus or spleen
Formulation	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.
Preparation	The antibody was purified by affinity chromatography and conjugated with APC/Fire™ 750 under optimal conditions.
Concentration	0.2 mg/ml
Storage & Handling	The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. Do not freeze.
Application	FC - Quality tested
Recommended Usage	Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis . For flow cytometric staining, the suggested use of this reagent is ≤ 0.125 µg per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application. * APC/Fire™ 750 has a maximum excitation of 650 nm and a maximum emission of 787 nm.
Excitation Laser	Red Laser (633 nm)
Product Citations	1. Izumi G, <i>et al.</i> 2021. Nat Commun. 12:5029. PubMed
RRID	AB_2734179 (BioLegend Cat. No. 123331) AB_2734180 (BioLegend Cat. No. 123332)

Antigen Details

Structure	GPI-linked membrane glycoprotein, 53-55 kD
Distribution	macrophages, dendritic cells, kupffer cells, hepatocytes
Function	LPS receptor, clearance of Gram-negative pathogens
Ligand/Receptor	LPS

Cell Type	Dendritic cells, Macrophages
Biology Area	Cell Biology, Immunology, Innate Immunity, Neuroinflammation, Neuroscience
Molecular Family	Adhesion Molecules, CD Molecules
Antigen References	<ol style="list-style-type: none"> 1. Stocks S, <i>et al.</i> 1990. <i>Biochem. J.</i> 268:275. 2. Akashi S, <i>et al.</i> 2003. <i>J. Exp. Med.</i> 198:1035. 3. Matsuura K, <i>et al.</i> 1994. <i>J. Exp. Med.</i> 179:1671. 4. Liu S, <i>et al.</i> 1998. <i>Infect. Immun.</i> 66:5089.
Gene ID	12475

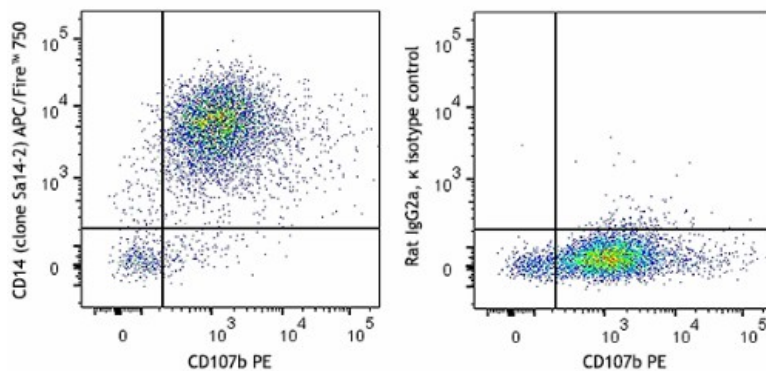
Related Protocols

[Cell Surface Flow Cytometry Staining Protocol](#)

Other Formats

Purified anti-mouse CD14, Biotin anti-mouse CD14, FITC anti-mouse CD14, PE anti-mouse CD14, APC anti-mouse CD14, PerCP/Cyanine5.5 anti-mouse CD14, PE/Cyanine7 anti-mouse CD14, APC/Cyanine7 anti-mouse CD14, Purified anti-mouse CD14 (Maxpar® Ready), Brilliant Violet 510™ anti-mouse CD14, Brilliant Violet 421™ anti-mouse CD14, Alexa Fluor® 647 anti-mouse CD14, PE/Dazzle™ 594 anti-mouse CD14, APC/Fire™ 750 anti-mouse CD14, TotalSeq™-A0424 anti-mouse CD14, TotalSeq™-C0424 anti-mouse CD14, TotalSeq™-B0424 anti-mouse CD14, Brilliant Violet 605™ anti-mouse CD14, Brilliant Violet 785™ anti-mouse CD14 Antibody

Product Data



Thioglycollate-elicited BALB/c mouse peritoneal macrophages were stained with CD107b (Mac-3) PE and CD14 (clone Sa14-2) APC/Fire™ 750 (left) or rat IgG2a, κ APC/Fire™ 750 isotype control (right).

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